	Application No.	Applicant(s)	_ m
Notice of Allowability		Applicant(s)	
	10/098,706 Examiner	HEGDE ET AL.	
	LAAIIIIIIIIII	Art Unit	
	Asok K. Sarkar	2829	
The MAILING DATE of this communication appears of the series allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	or REMAINS) CLOSED II or other appropriate commit IGHTS. This application is a and MPEP 1308.	n this application. If not inclu	ded
1. This communication is responsive to <u>Amendment filed 11/2.</u>	<u>3/2003</u> .		
2.  The allowed claim(s) is/are <u>1-3,9,26,27 and 29</u> .			
3. The drawings filed on <u>15 March 2002</u> are accepted by the	Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority ur  a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).	
1. Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	been received in Applicatio	n No	
3. Copies of the certified copies of the priority doc	cuments have been received	l in this national stage applic	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority ur reference was included in the first sentence of the specifica	uon of in an Application Dat	a Sheet 37 CED 1 70	e a specific
(a) in the translation of the foreign language provisional a	oplication has been received	1	
6. Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application	Data Sneet. 37 CFR 1.78.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	riis application. THIS THRE	E-MONTH PERIOD IS NOT	EXTENDARIF
7. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give:	s reason(s) why the oath or	MINER'S AMENDMENT or N declaration is deficient.	OTICE OF
8. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) including changes required by the Notice of Draftsperso	on's Patent Drawing Review	( PTO-948) attached	
1) hereto or 2) to Paper No			
(b) ☐ including changes required by the proposed drawing co	πection filed, which	has been approved by the E	xaminer.
(c) ☐ including changes required by the attached Examiner's	Amendment / Comment or i	n the Office action of Paper I	No
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the margin according to 37 CFR	drawings in the front (not the 1.121(d).	back) of
9. DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT FOR TH	t of BIOLOGICAL MATER E DEPOSIT OF BIOLOGICA	RIAL must be submitted. N AL MATERIAL.	lote the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)	5☐ Notice of Inforr	nal Patent Application (PTO-	152)
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6 Interview Summ	mary (PTO-413), Paper No	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No	7⊠ Examiner's Am		·
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material		tement of Reasons for Allow	ance

Application/Control Number: 10/098,706

Art Unit: 2829

### **DETAILED ACTION**

# Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 3, 2003 has been entered.

## Response to Amendment

2. Applicant's explanation of the instant invention in pointing the difference with the cited prior art was found to be convincing to the Examiner. Additionally, Applicant's amendments of claims 1-3, 9, 26 and, 27 correct the problems noted in Paper No. 5, paragraphs 2-6 and accordingly, the rejection to claims 1-3, 9, 26, 27 and 29 based on 35 U. S. C. 112 and 103 (a) is withdrawn.

# **EXAMINER'S AMENDMENT**

3. The title of the invention is not descriptive. A new title is provided that is clearly indicative of the invention to which the claims are directed. The title was amended as follows:

Delete original title and replace it with "Transistor with layered high-K gate dielectric and method therefor."

Application/Control Number: 10/098,706

Art Unit: 2829

#### Allowable Subject Matter

Page 3

4. Claims 1 – 3, 9, 26, 27 and 29 are now allowed.

5. The following is an examiner's statement of reasons for allowance:

Claims 1-3, 9, 26, 27 and 29 recite, inter alia, a gate dielectric of a transistor device comprising a layer of hafnium oxide over a layer of zirconium oxide. The art of record does not disclose or anticipate the above limitation in combination with other claim elements nor would it be obvious to modify the art of record so as to form a device including the above limitation.

#### Conclusion

- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asok K. Sarkar whose telephone number is 703 308 2521. The examiner can normally be reached on Monday Friday (8 AM- 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 703 308 1233. The fax phone number for the organization where this application or proceeding is assigned is 703 308 7722.

Art Unit: 2829

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 4918.

Asok K. Sarkar November 20, 2003

Davist, famle Davist. Farneke Primary Exact 11/20/3